

Amphibole Thermobarometers

Reference	Name in Thermobar	T-dependent?	P-dependent?	H ₂ O-dependent?
Amphibole-Liquid Barometry. Function “calculate_amp_liq_press”				
Putirka (2016)	P_Put2016_eq7a	X		✓
	P_Put2016_eq7b	X		✓*
	P_Put2016_eq7c	X		X
Amphibole-Liquid Thermometry. Function “calculate_amp_liq_temp”				
Putirka (2016)	T_Put2016_eq4b		X	✓
	T_Put2016_eq4a_amp_sat		X	✓*
	T_Put2016_eq9		X	✓*
Amphibole-only Barometry. Function “calculate_amp_only_press”				
Medard & Pennec (2022) ^{*2}	P_Medard2022_RidolfiSites P_Medard2022_LeakeSites P_Medard2022_MutchSites			
Ridolfi and Renzulli (2012) & Ridolfi (2021)	P_Ridolfi2012_1a	X		X
	P_Ridolfi2012_1b	X		X
	P_Ridolfi2012_1c	X		X
	P_Ridolfi2012_1d	X		X
	P_Ridolfi2012_1e	X		X
	P_Ridolfi2021 ^{*3}	X		X
Mutch et al. (2016)	P_Mutch2016	X		X
Ridolfi et al. (2010)	P_Ridolfi2010	X		X
Hammerstrom & Zen (1986)	P_Hammarstrom1986_eq1	X		X
	P_Hammarstrom1986_eq2	X		X
	P_Hammarstrom1986_eq3	X		X
Hollister et al. (1987)	P_Hollister1987	X		X
Johnson & Rutherford (1989)	P_Johnson1989	X		X
Blundy et al. (1990)	P_Blundy1990	X		X
Schmidt (1992)	P_Schmidt1992	X	X	
Anderson & Smith, 1995	P_Anderson1995	✓	X	
Krawczynski et al. (2012)	P_Kraw2012	X	X	
Amphibole-only Thermometry. Function “calculate_amp_only_temp”				
Putirka (2016)	T_Put2016_eq5		X	X
	T_Put2016_eq6		X	X
	T_Put2016_SiHbl		X	X
	T_Put2016_eq8		✓	X
Ridolfi and Renzuli, 2012	T_Ridolfi2012		✓	X
Amphibole-Plagioclase Thermometry. Function “calculate_amp_plag_temp”				
Holland and Blundy, 1994	T_HB1994_A T_HB1994_B		✓	X

✓* H₂O-dependence because of parameterization in terms of hydrous fractions, not a specific H₂O-term

^{*2} We provide 3 options for how to calculate Al^{VI}

^{*3} Equation P=“ **P_Ridolfi2021**” uses an algorithm to combine results of eq1a-1e